

Private Networks

Delivering manufacturing transformation.

As UK manufacturers embrace new digital and Industry 4.0 operations, high-performance Private Networks are playing a critical enabling role – delivering the dedicated bandwidth to connect and manage an unprecedented volume of machines, IoT sensors and data on a single network.

With today's smart processes, manufacturers have an exciting opportunity to address the needs of established and fast-evolving markets. They can embrace high-mix, low-volume customisation production models. And they can cost-effectively balance output to demand – all by leveraging a sophisticated combination of automation, robotics, machine learning, augmented reality, predictive maintenance and more.

It's all made possible through the security and guaranteed connectivity of a single, dedicated 4G/5G Private Network that you control.

A private, dedicated network assures data security, removes the capacity and contention issues of WiFi and mobile networks, and delivers round the clock connectivity.



Delivering digital transformation, innovation and competitive advantage

Remote-control

Control and monitoring of machinery, robots and vehicles



Increase safety

Remove humans from dangerous areas with Augmented Reality (AR), Virtual Reality (VR) and Digital Twin

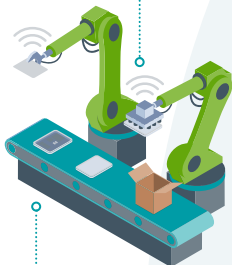


Robotics

Automate hazardous tasks, boost productivity, maximise efficiency

Mission-critical communications

Guaranteed, always-on connectivity to commercial, information and production systems



Asset localisation

Enhanced efficiency with traceability of parts and tools

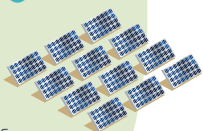


Predictive maintenance

Operational continuity through assisted and proactive maintenance

Environmental sensors

Asset and infrastructure insights to identify potential harmful emissions and monitor and reduce energy consumption



Internal logistics

Automated vehicle guidance systems throughout the facility



Features and Benefits

- **Purpose-built 4G/5G network** delivering the coverage and capacity you need, where you need it
- **Low-latency, high bandwidth connectivity** guarantees always-on performance, eliminates outages and assures operational continuity
- **Secure and private**, restricting access from outside and delivers data protection and compliance as standard
- **Offers opportunities to deploy automation, AI or robotics** to increase efficiency, streamline operations and reduce cost
- **Delivers the ability to track and monitor assets and employees** to increase site and worker safety
- **Managed by a single, experienced partner** to cut through the complexity, deliver a bespoke solution and eliminate investment risk

Why Cellnex?

As a Critical National Infrastructure Provider and one of Europe's leading telecommunication companies, Cellnex is trusted by enterprises, the emergency services and mobile network operators.

Working together with Edzcom, a market-leader and wholly owned subsidiary of Cellnex, our solutions provide an assured answer to the connectivity challenges of a rapidly evolving Industry 4.0 world.

To find out more about Private Network solutions, contact our experts at: PrivateNetworks@cellnextelecom.co.uk